

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Ko, *et al.* Docket No.: TSM03-0275  
Serial No.: 10/687,377 Art Unit: TBD  
Filed: October 16, 2003 Examiner: TBD  
For: Isolation Structure with Nitrogen-Containing Liner and Methods of  
Manufacture

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Date of Deposit: November 25, 2003

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Information Disclosure Statement (1 page)  
PTO Form SB/08A w/ 18 references cited (1 page)  
Copies of 3 cited references  
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Respectfully submitted,

  
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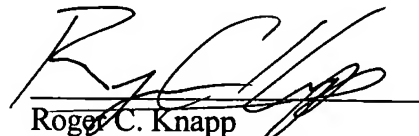
**INFORMATION DISCLOSURE STATEMENT**

The Applicant wishes to bring to the attention of the Patent and Trademark Office the information noted on the enclosed form SB-08A that may be considered material to the examination of the above-identified application.

No fee is due at this time, as this Information Disclosure Statement is being filed pursuant to 37 C.F.R. § 1.97(b)(1), within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d).

Cite numbers A-O are newly cited prior art being filed under the waived requirement of 37 CFR 1.98 (a)(2)(i) dated July 11, 2003, therefore, copies of these U.S. patents are not included.

Respectfully submitted,

  
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Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Applicant Number	10/687,377
				Filing Date	October 16, 2003
				First Named Inventor	KO, et al.
				Art Unit	TBD
				Examiner Name	TBD
Sheet	1	of	1	Attorney Docket Number	TSM03-0275

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	A	US-4,631,803	12-30-1986	Hunter, et al.	
	B	US-5,447,884	09-05-1995	Fahey, et al.	
	C	US-5,763,315	06-09-1998	Benedict, et al.	
	D	US-6,020,621	02-01-2000	Wu	
	E	US-6,046,487	04-04-2000	Benedict, et al.	
	F	US-6,251,746 B1	06-26-2001	Hong, et al.	
	G	US-6,285,317 B1	07-24-2001	Chiu, et al.	
	H	US-6,291,321 B1	09-18-2001	Fitzgerald	
	I	US-6,391,729 B1	05-21-2002	Hui	
	J	US-6,417,070 B1	07-09-2002	Ballantine, et al.	
	K	US-6,429,061 B1	08-06-2002	Rim	
	L	US-6,461,936 B1	10-08-2002	von Ehrenwall	
	M	US-6,461,937 B1	10-08-2002	Kim, et al.	
	N	US-6,482,718 B2	11-19-2002	Shiozawa, et al.	
	O	US-6,495,424 B2	12-17-2002	Kunikiyo	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	P	SHIMIZU, A., et al., "Local Mechanical-Stress Control (LMC): A New Technique for CMOS-Performance Enhancement," International Electron Devices Meeting (2001) pp. 433-436.	
	Q	THOMPSON, S., et al., "A 90 nm Logic Technology Featuring 50nm Strained Silicon Channel Transistors, 7 Layers of Cu Interconnects, Low k ILD, and 1 um <sup>2</sup> SRAM Cell," International Electron Devices Meeting (December 2002) pp. 61-64.	
	R	WELSER, J., et al., "NMOS and PMOS Transistors Fabricated in Strained Silicon/Relaxed Silicon-Germanium Structures," International Electron Devices Meeting (December 1992) pp. 1000-1002.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

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